

Customer No. 25280

Case No. 2130

Claim Amendments

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Claims 1 – 48 (cancelled)

49. (new) A treated substrate comprising a finish comprising metal compounds selected from the group consisting of silver particle-containing compounds, silver ion-containing compounds, silver ion-generating compounds, and any combinations thereof, and

a substrate selected from the group consisting of a yarn, a fabric comprised of individual fibers, and a film;

wherein said finish is adhered to at least one portion of the surface of said substrate;

wherein said at least one portion of said treated substrate retains at least about 50% of said adhered to finish after 10 washes as performed in accordance with the wash procedure of AATCC Test Method 130-1981;

wherein said finish contains a binder agent and 0.1 to 40 weight percent of the metal compound, or

wherein the at least one portion of said treated substrate is covered with a binder formulation;

wherein said treated substrate is electrically non-conductive; and

wherein said finish exhibits antimicrobial properties.

50. (new) The treated substrate of claim 49, wherein said substrate is an individual yarn.

51. (new) The treated substrate of claim 49, wherein said substrate is a textile fabric.

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52. (new) The treated substrate of claim 49, wherein said substrate is a film.
53. (new) A treated substrate of claim 49, exhibiting a log kill rate for *Staphylococcus aureus* of at least 1.5 and a log kill rate for *Klebsiella pneumoniae* of at least 1.5, both as tested in accordance with AATCC Test Method 100-1993 for 24 hour exposure, after at least 10 washes, said washes performed in accordance with the wash procedure as part of AATCC Test Method 130-1981.
54. (new) The treated substrate of claim 49, wherein the metal compound is a silver ion-containing compound.
55. (new) The treated substrate of claim 49, wherein the metal compound is present in an amount of between 0.01 to 1.0 ounces per square yard.
56. (new) The treated substrate of claim 49, wherein the substrate is a fabric comprised of cotton fibers, wool fibers, ramie fibers, hemp fibers, linen fibers, polyolefin fibers, polyester fibers, polyamide fibers, polyaramid fibers, acetate fibers, rayon fibers, acrylic fibers, or blends thereof.
57. (new) The treated substrate of claim 56, wherein the substrate is a fabric comprised of polyester fiber.
58. (new) The treated substrate of claim 49, wherein the binder is selected from the group consisting of cross-linked imidazolidinones, acrylic binders, melamine resins, polyvinyl chloride-containing polymers, ethoxylated polyesters, or blends thereof.

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59. (new) The treated substrate of claim 49, wherein the binder is anionic or nonionic, and wherein the binder, after processing and application to the substrate:

- (a) is not readily soluble in water,
- (b) is not susceptible to attack by standard laundering additives selected from the group consisting of detergents, solvents, bleaches, and mixtures thereof, and
- (c) is not susceptible to degradation due to exposure to high temperatures associated with standard laundry drying temperatures.